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# REPORTS

AGRICULTURE • ECONOMICS

from USDA's Economics Agencies

Winter 1990/91



## Special Issue

This special issue of *Reports* lists all publications and videotapes currently available for sale from USDA's economics agencies. Economic Research Service (ERS) reports analyze trade, production, rural development, farm inputs, and other topics. National Agricultural Statistics Service (NASS) reports estimate production, stocks, inventories, disposition, utilization, and prices of agricultural commodities, and such other items as labor and farm numbers. The World Agricultural Outlook Board (WAOB) issues regular forecasts of U.S. and world supply and demand prospects for major agricultural commodities. Please order by number using the order form on pages 21-22. Or call our desk toll-free at 1-800-999-6779 (8:30-5:00 Eastern Time, in the United States and Canada) and charge your purchase to your VISA or MasterCard. Other areas, please call 703-725-7937.

HANHEIM  
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## Banking and Farm Credit

**Recent Developments at the Farm Credit System**, by Merritt Hughes. 16 pp. September 1989. Order # AIB-572. \$3.00. Outlines the recent financial position of the FCS and a number of factors likely to contribute to, or impede, its recuperation.

**Nonmetro, Metro, and U.S. Bank Operating Statistics, 1986**, by James J. Mikesell. 84 pp. October 1989. Order # SB-787. \$8.00. Presents operating statistics for U.S. banks for 1986, and comparisons with 1985.

**Deregulation and Structure of Rural Financial Markets**, by Daniel L. Milkove and Patrick J. Sullivan. 50 pp. February 1990. Order # RDRR-75. \$11.00. Examines the structure of rural bank markets, determines how this structure has changed during the 1980's, and discusses probable scenarios for the future of the rural banking system.

**Prospective Rural Effects of Bank Deregulation**, by Stephen W. Hiemstra. 56 pp. March 1990. Order # RDRR-76. \$11.00. Focuses on rural implications of the expansion of commercial banks into investment banking and addresses what provisions were in the proposed legislation.

**An Analysis of the Recent Surge In Consumer Debt In Rural Areas**, by Donald L. Lerman. 40 pp. April 1990. Order # AGES 9030. \$8.00. Examines several elements of the recent surge in consumer debt of rural households using household-level survey data.

**An Examination of Federal Reserve Behavior: An Applied Reaction Function Approach**, by Paul A. Sundell. 36 pp. April 1990. Order # AGES 9029. \$8.00. Investigates the factors that have influenced Federal Reserve policy and, ultimately, bank interest rates.

## What's Inside

Commodity Background Papers	3
Farm Programs	4
Farmworkers and Farm Employment	4
Farm Operations and Finances	5
Farmland	6
Conservation and the Conservation Reserve	6
Farm Policy	7
Food	8
Futures and Options, Inputs	9
Irrigation and Water Use, New Technology	10
Rural Issues	11
Trade and Foreign Issues	12
Global Commodity Reports	15
NASS Reports, Other	16
Major Statistical Series	17
NASS Periodicals	18
ERS Periodicals, WAOB	20
Order Form	21
New Electronic Data Products, Video Tapes	23

## Commodities

**Leading Commodity Cash Receipts, 1960-87**, by Robert P. Williams and others. 132 pp. March 1989. Order # SB-777. \$8.00. Presents data on cash receipts for 25 leading commodities by State to reflect production and sales of each commodity in each State.

**U.S. Rice Distribution Patterns, 1986/87**, by Nathan W. Childs. 29 pp. March 1989. Order # SB-776. \$5.50. Detailed data on domestic rice shipments and distribution from 31 rice milling and 7 repackaging firms.

**The U.S. Watermelon Industry**, by Amy J. Allred and Gary Lucier. 73 pp. March 1990. Order # AGES 9015. \$11.00. Reviews supply and utilization trends, prices, transportation, packaging, marketing, cash receipts, and costs of producing watermelons.

**Bibliography of Economic Reports on the Production and Marketing of Fruits and Vegetables, 1981-89**, by Joan Pearrow and Nadine Lofton. 71 pp. September 1990. Order # BLA-102. \$11.00. Lists research publications on the economics of fruits and vegetables published from January 1981 to June 1989.

**Reevaluation of the Beef Carcass-to-Retail Weight Conversion Factor**, by Kenneth E. Nelson and others. 44 pp. October 1989. Order # AER-623. \$5.50. Develops a new method for evaluating the conversion factor used for changing beef carcass weight data to retail weight.

**U.S. Egg and Poultry Statistical Series, 1960-89**, by Mark R. Weimar and Shauna Cromer. 234 pp. September 1990. Order # SB-816. \$14.00. Reports monthly, quarterly, and annual 1960-89 data for eggs, turkeys, and broilers related to production, stocks, trade, per capita consumption, costs of production, farm prices, wholesale prices, and retail prices.

**Estimates of the Costs of Producing Milk in Seven Major Milk-Producing Countries, 1986**, by Derek Baker and others. 16 pp. August 1990. Order # AGES 9056. \$4.00. Looks at costs of producing milk in Canada, West Germany, France, Ireland, the Netherlands, New Zealand, and the United States.

**Quarterly Forecasting of Meat Retail Prices: A Vector Autoregression Approach**, by Howard Elitzak and W. Noel Blisard. 20 pp. June 1989. Order # AGES 89-27. \$5.50. Uses vector autoregression models to forecast five meat and fish Consumer Price Indexes.

**Costs of Producing U.S. Livestock, 1972-87: Estimating and Methodology Update**, by Hosein Shapouri and others. 98 pp. April 1990. Order # AER-632. \$11.00. Presents a way to make a consistent set of cost and returns estimates for U.S. livestock production in 1972-87, a period in which there were data gaps and in which many estimating methods and formats were used.

**How Costs of Production Vary**, by Mary Ahearn and others. 20 pp. May 1990. Order # AIB-599. \$4.00. Analyzes groups of producers at various cost levels and shows that costs of producing crops per unit of output vary considerably by farm.

**State-Level Costs of Production, 1987**, by Robert McElroy and others. 88 pp. March 1989. Order # AGES 89-13. \$8.00. The State estimates in the 158 tables in this report cover data on major field crops (except sugar crops).

**Floriculture and Environmental Horticulture Products: A Production and Marketing Statistical Review, 1960-88**, by Doyle C. Johnson. 245 pp. September 1990. Order # SB-817. \$14.00. Provides statistical information on the production, marketing, and trade of floral, nursery, and related products of the greenhouse and nursery industry in the United States and the world.

**Representative U.S. Wheat Farms**, by Michael E. Salassi. 71 pp. January 1990. Order # SB-786. \$11.00. Gives average organizational and financial characteristics of representative farms, by size, in 12 States.

**The Wheat Program in the 1990's: Issues for Decisionmakers**, by Edwin Young and others. 16 pp. June 1990. Order # AIB-606. \$4.00. Describes the evolution of U.S. wheat policy and major wheat program issues of the 1990's.

**State-Level Wheat Statistics, 1949-88**, by Jim Langley and Suchada Langley. 96 pp. March 1989. Order # SB-779. \$8.00. Provides State-level data on production levels and trends for all wheat, winter wheat, durum wheat, and other spring wheat for 1949-88.

**Optimal Futures Positions for Corn and Soybean Growers Facing Price and Yield Risk**, by Dwight Grant. 48 pp. March 1989. Order # TB-1751. \$5.50. Presents a model of futures trading for crop producers with random yields.

**Effects of Railroad Deregulation on Grain Transportation**, by James M. MacDonald. 52 pp. June 1989. Order # TB-1759. \$5.50. Looks at how shippers now benefit from increased competition among railroads and from reductions in rail costs.

**The U.S. Sheep Industry**, by Richard Stillman and others. 52 pp. July 1990. Order # AGES 9048. \$8.00. Focuses on production of lamb and lamb products, returns in the sheep industry, demand, and marketing trends.

**Financial Performance of Specialized Hog Farms**, by Robert Dubman and Gregory Hanson. 12 pp. December 1989. Order # AIB-578. \$3.00. Finds that specialized hog farms had more favorable financial conditions in 1987 than most other commodity specialty farms.

**Financial Performance of Specialized Corn-Soybean Farms, 1987**, by Robert Dubman and Gregory Hanson. 12 pp. January 1990. Order # AIB-583. \$4.00. Finds that specialized corn-soybean farms fared better financially in 1987 than most other specialized commodity farms.

**The U.S. Milling and Baking Industries**, by Joy L. Harwood and others. 74 pp. December 1989. Order # AER-611. \$8.00. Describes the milling and baking industries' structure, conduct, and performance, and examines current trends.

**Cotton Ginning Charges, Harvesting Practices, and Selected Marketing Costs, 1989/90 Season**, by Edward H. Glade and Mae Dean Johnson. 4 pp. October 1989. Order # AGES 9065. \$4.00. Finds that the average charge for saw-ginning and wrapping a 480-pound net-weight bale of U.S. upland cotton was \$44.26 during 1989/90, compared with \$45.14 per bale the previous season.

*The following reports present State-level commodity production cost and returns estimates for 1986-88:*

**Cotton: State-Level Costs of Production, 1986-88**, by Kenneth H. Mathews, Jr., and others. 27 pp. September 1990. Order # AGES 9061. \$8.00.

**Corn: State-Level Costs of Production, 1986-88**, by Robert A. Pelly and Mir B. Ali. 35 pp. June 1990. Order # AGES 9045. \$8.00.

**Barley: State-Level Costs of Production, 1986-88**, by William D. McBride and others. 26 pp. June 1990. Order # AGES 9046. \$8.00.

**Peanuts: State-Level Costs of Production, 1986-88**, by Robert Dismukes and others. 24 pp. September 1990. Order # AGES 9063. \$8.00.

## Commodity Background Papers

*Congress recently enacted new farm legislation to replace the Food Security Act of 1985. The following series of background papers summarize in a nontechnical form the experience with various farm programs and the key characteristics of the commodities and the farm industries which produce them.*

**Dairy: Background for 1990 Farm Legislation**, by Richard F. Fallert and others. 74 pp. March 1990. Order # AGES 9020. \$11.00.

**Call toll-free 1-800-999-6779**

**Soybeans and Peanuts: Background for 1990 Farm Legislation**, by Brad Crowder and others. 66 pp. March 1990. Order # AIB-592. \$11.00.

**Fibers: Background for 1990 Farm Legislation**, by Harold Stults and others. 89 pp. March 1990. Order # AIB-591. \$11.00.

**U.S. Feed Grains: Background for 1990 Farm Legislation**, by Linwood Hoffman and others. 230 pp. May 1990. Order # AIB-604. \$14.00.

**Sugar: Background for 1990 Farm Legislation**, by Robert Barry. 96 pp. February 1990. Order # AGES 9006. \$11.00.

**Honey: Background for 1990 Farm Legislation**, by Frederic L. Hoff and Jane K. Phillips. 42 pp. September 1989. Order # AGES 89-43. \$5.50.

**Food Grains: Background for 1990 Farm Legislation**, by C. Edwin Young and others. 144 pp. August 1990. Order # AIB-602. \$11.00.

**Tobacco: Background for 1990 Farm Legislation**, by Verner N. Grise. 68 pp. October 1989. Order # AGES 89-48. \$8.00.

## Farm Programs

**Crops, Livestock, and Farm Programs: Overlooked Interactions**, by Clark Edwards. 64 pp. September 1990. Order # AER-638. \$11.00. Examines how shifts in consumer and importer demand, resource supply, technology, capital accumulation, or farm programs affect different enterprises in ways often not anticipated by economic analysts.

**Effects of Government Programs on Rice Production Costs and Returns**, by Michael Salassi and others. 12 pp. March 1990. Order # AIB-597. \$4.00. This analysis, the first of its kind to show direct effects of Government programs, finds gross returns, production costs, and net returns to be higher when Government payments are included in the costs/returns calculations.

**Profile of Farms Benefiting from the 1982 Farm Commodity Programs**, by Frederick J. Nelson. 72 pp. September 1989. Order # AGES 89-32. \$8.00. Looks at the 1982 and 1986 commodity support programs and the characteristics of program beneficiaries.

**Economic Effects of Mandatory Production Controls**, by C. Edwin Young and others. 36 pp. March 1989. Order # AER-595. \$5.50. A mandatory production control program using acreage allotments to increase commodity prices to 80 percent of parity will increase aggregate net farm income by slightly less than \$80 billion over a 5-year period and can raise consumer costs by about the same amount (over current trends).

**Program Provisions for Program Crops: A Database for 1961-90**, by Robert C. Green. 113 pp. March 1990. Order # AGES 9010. \$11.00. Looks at legislation that provided the foundation for commodity support programs and highlights legislation that revised and supplemented the basic structure of these programs.

**U.S. Farm Programs and Agricultural Resources**, by Robbin Shoemaker and others. 12 pp. September 1990. Order # AIB-614. \$4.00. Finds that U.S. agricultural programs have a greater effect on land and other farm inputs than on commodity production.

**Federal Crop Insurance and the 1990 Farm Bill: An Assessment of Program Options**, by Joseph W. Glauber and others. 38 pp. September 1989. Order # AGES 89-45. \$5.50. Examines how the current program and proposed alternatives affect market prices, commodity market participation, producer revenues, and the Federal budget.

**The Disaster Assistance Act of 1989: A Description of the Provisions**, by Susan L. Pollack. 19 pp. November 1989. Order # AGES 89-59. \$5.50. Summarizes provisions of the Disaster Assistance Act of 1989 (P.L. 101-82) which provides assistance to crop and livestock producers who suffered harvest losses from natural disasters in 1988 and 1989.

**Federal Marketing Orders for Fruits, Vegetables, Nuts, and Specialty Crops**, by Nicholas J. Powers. 34 pp. March 1990. Order # AER-629. \$8.00. Explains why there is a Federal marketing order for horticultural crops, its development and operation, and its effect on market participants.

**Federal Marketing Orders for Horticultural Crops**, by Nicholas J. Powers. 16 pp. March 1990. Order # AIB-590. \$4.00. Describes the purpose of horticultural marketing orders and their effects on growers, marketers, input suppliers, food processors, and consumers.

## Farmworkers and Farm Employment

**The Agricultural Work Force of 1987: A Statistical Profile**, by Victor J. Oliveira and E. Jane Cox. 40 pp. May 1989. Order # AER-609. \$5.50. Discusses the demographic, employment, and regional characteristics of the agricultural work force, including hired farmworkers, farm operators, and unpaid farmworkers.

**A Summary of Federal Laws and Regulations Affecting Agricultural Employers**, by Jack L. Runyan. 18 pp. January 1989. Order # AIB-550. \$5.50. A single source of information describing Federal laws and regulations that pertain to agricultural employer-employee relations and agricultural employment taxes.

**Labor Expenditures Help Determine Farms Affected by Immigration Reform**, by James A. Duffield and others. 16 pp. April 1989. **Order # AIB-557. \$3.00.** Focuses on farms that reported labor expenditures in 1986 in terms of commodities produced, sales class, and location to identify farms most vulnerable to a reduced supply of farmworkers.

**Where Do Farm Households Earn Their Income?** by Nora Brooks and Donn A. Reimund. 8 pp. February 1989. **Order # AIB-560. \$3.00.** Examines the relative importance of farm and off-farm sources of income by type of farm, farm sizes, region, and proximity to metro employment centers.

**Trends in the Hired Farm Working Force, 1945-87**, by Victor J. Oliveira. 16 pp. April 1989. **Order # AIB-561. \$3.00.** Examines factors behind the historical trends in the size and composition of the hired farm work force.

**Alternative Definitions of Farm People**, by Vera Banks and others. 36 pp. March 1989. **Order # AGES 89-9. \$5.50.** Notes differences among farm population definitions by residence, income, and farm occupation.

**The Farm Entrepreneurial Population, 1988**, by Margaret A. Butler. 28 pp. July 1990. **Order # RDRR-78. \$8.00.** Analyzes census data on income, education, and other characteristics of the group identified by farm occupation and farm self-employment criteria.

**Estimating Farm Labor Elasticities to Analyze the Effects Of Immigration Reform**, by James A. Duffield. 20 pp. February 1990. **Order # AGES 9013. \$8.00.** Uses a simultaneous equation model to measure the effect of the Immigration Control Act of 1986 on the U.S. farm labor market.

**Nonfarm Employment of Farm Operators, Hired Farmworkers, and Unpaid Farmworkers**, by Victor J. Oliveira. 20 pp. January 1990. **Order # AER-624. \$4.00.** Looks at age of worker, education level, minority status, head of household status, days spent doing farmwork, and residence in metropolitan areas and how these factors affect hired farmwork.

**Agriculture-Related Employment: Farm Commodity Programs and Rural Economies**, by Mindy Petrulis and others. 16 pp. September 1990. **Order # AIB-613. \$4.00.** Describes the modern food and fiber complex and government commodity programs and how they affect nonmetro economies and employment.

**Characteristics of Agricultural Work Force Households, 1987**, by Victor J. Oliveira and E. Jane Cox. 8 pp. August 1990. **Order # AIB-612. \$4.00.** Spotlights those households most affected by farm job loss.

**Involuntary Exits from Farming: Evidence from Four Studies**, by Susan E. Bentley and others. 16 pp. November 1989. **Order # AER-625. \$3.00.** Analyzes four cases of farm exit in southwestern Wisconsin, Texas, North Dakota, and Dodge County, Georgia, mainly during the early 1980's.

**Exits from Farming In Southwestern Wisconsin, 1982-86**, by Susan E. Bentley and William E. Saupe. 24 pp. February 1990. **Order # AER-631. \$8.00.** Finds that one in every five farm operators in southwestern Wisconsin left farming in the early 1980's.

## Farm Operations and Finances

**Farm Businesses End the Decade With Strong Financial Performance**, by Mitchell J. Morehart and others. 21 pp. October 1990. **Order # AIB-616. \$8.00.** Presents the latest (as of January 1, 1990) findings on the financial performance of U.S. farms. Updates the next two listings.

**Financial Characteristics of U.S. Farms, January 1, 1989: A Summary**, by Mitchell J. Morehart and others. 16 pp. July 1989. **Order # AIB-569. \$3.00.** Summarizes the latest information on the financial performance of farmers from the Farm Costs and Returns Survey.

**Financial Characteristics of U.S. Farms, January 1, 1989**, by Mitchell J. Morehart and others. 171 pp. December 1989. **Order # AIB-579. \$8.00.** Provides a detailed analysis of farm financial performance based on the latest information from the Farm Costs and Returns Survey.

**Farm Financial Conditions, by Region, January 1, 1989**, by Gregory Hanson and others. 12 pp. December 1989. **Order # AIB-577. \$3.00.** Presents farm financial findings from USDA's annual Farm Costs and Returns Survey.

**Farm Operating and Financial Characteristics, 1986**, by Elizabeth G. Nielsen and Mitchell J. Morehart. 149 pp. January 1989. **Order # SB-772. \$8.00.** NOTE: UPDATE AVAILABLE. See AGES 9032, below.

**Farm Operating and Financial Characteristics, 1987**, by Mitchell Morehart. 168 pp. April 1990. **Order # AGES 9032. \$14.00.** Presents an assortment of farm economic data along with statistical measures of precision for 1987.

**Alternative Measures of Farm Output to Classify Farms by Size**, by Gregory D. Hanson and others. 32 pp. January 1989. **Order # TB-1749. \$5.50.** Looks at six different ways of classifying farms to determine how they are faring: three measures based on value of sales and three measures based on value of production.

**Estimating Supply Response of Multiproduct Farms**, by V. Eldon Ball. 24 pp. January 1989. **Order # TB-1750. \$5.50.** Finds that operators of multiproduct farms make production decisions based on aggregate economic assessments, not just on isolated assessments for each crop.

**The U.S. Farming Sector Entering the 1990's: Twelfth Annual Report on the Status of Family Farms**, by Thomas Carlin and Sara Mazie. 72 pp. June 1990. **Order # AIB-587. \$11.00.** Finds that the U.S. farm sector will enter the 1990's in a much-improved financial position after the financial difficulties of the early and mid-1980's.

**The Distribution of Farm Program Payments, 1987**, by Robert D. Reinsel. 11 pp. June 1990. Order # AIB-607. \$4.00. Shows which groups of farms received Government program payments in 1987, and in what amount and proportion.

**Farm Structural Trends In the 1980's**, by Nora L. Brooks and others. 6 pp. June 1990. Order # AIB-605. \$4.00. A snapshot of the farm sector, covering trends in farm numbers, size, sales, asset values, operator characteristics, and farmland, based on 1987 Census of Agriculture data.

**Farmer Buying/Selling Strategies and Growth of Crop Farms**, by Kenneth R. Krause. 132 pp. April 1989. Order # TB-1756. \$8.00. Finds that large crop farms, with large input purchases and product sales, can often bargain for better terms than are available to smaller farms and can get better prices or access to services.

**Dynamic Asset Replacement Decisions to Enhance Farm Profits**, by John W. McClelland and others. 24 pp. June 1989. Order # TB-1758. \$5.50. Develops a model which can improve farm profitability by helping farmers determine when to rejuvenate assets instead of replacing them.

**A Historical Look at Farm Income**, by Cheryl D. Johnson. 27 pp. May 1990. Order # SB-807. \$8.00. Presents the national farm income statistics, dating back to 1910.

**Aspects of Farm Finances: Distribution of Income, Family Income, and Direct Payments, 1986**, by Robert D. Reinsel and David Bunker. 28 pp. April 1990. Order # AER-630. \$8.00. Cross-classifies 1986 Farm Costs and Returns Survey data to more clearly show the diverse nature of farms and their greatly varying financial conditions.

## Farmland

**Trends In Ownership Transfers of Rural Land**, by Gene Wunderlich. 8 pp. May 1990. Order # AIB-601. \$4.00. Presents findings of 1988 survey of rural land transfers to determine rate of change of rural real estate ownership.

**Rural Land Transfers In the United States**, by Paul W. Barkley and Gene Wunderlich. 20 pp. October 1989. Order # AIB-574. \$5.50. Using a 1988 survey, report shows that 88.4 percent of all rural land transferred each year is agricultural land, but only 4.8 percent of land transferred each year goes to nonfarmers.

**Transfers of Rural Land**, by Gene Wunderlich. 4 pp. July 1989. Order # AIB-568. \$3.00. Summarizes a 1988 nationwide survey of rural land transfers which found 4.6 percent of parcels and 3.5 percent of rural acreage changed hands in 1987.

**Returns, Interest Rates, and Cropland Prices In Selected Regions**, by Karl Gertel and Patrick Canning. 18 pp. April 1990. Order # TB-1778. \$4.00. Examines how returns to land and real interest rates on farm mortgages

affect farmland prices in the Corn Belt, selected winter wheat-growing areas of Kansas, and soybean- and cotton-growing areas of the Mississippi Delta.

**U.S. Grazing Lands: 1950-82**, by Arthur B. Daugherty. 75 pp. January 1989. Order # SB-771. \$8.00. Examines grazing trends, demands, resources, and conditions of resources through 1982.

**Metropolitan Growth and Agriculture: Farming In the City's Shadow**, by Ralph E. Heimlich and Douglas H. Brooks. 20 pp. September 1989. Order # AER-619. \$5.50. Looks at farming in metro areas.

**Structural Changes in U.S. Farmland**, by Robert C. Reining. 17 pp. June 1990. Order # AER-617. \$8.00. Examines changes in the distribution of land, sales, and tenure among farms.

**Foreign Ownership of U.S. Agricultural Land Through December 31, 1989**, by J. Peter DeBraal. 60 pp. April 1990. Order # AGES 9026. \$8.00. This annual report to the President and Congress finds that foreigners owned 12.9 million acres of U.S. agricultural land as of December 31, 1989.

**Foreign Ownership of U.S. Agricultural Land Through December 31, 1989: County-Level Data**, by Gertrude S. Butler and J. Peter DeBraal. 132 pp. May 1990. Order # AGES 9038. \$11.00. Presents foreign investment data for each of the 3,041 U.S. counties.

**Foreign Investment in U.S. Cropland: Some Evidence on the Role of Exchange Rates, Interest Rates, and Returns on Cropland**, by John Kitchen and J. Peter DeBraal. 13 pp. September 1989. Order # AGES 89-44. \$3.00. Examines the role of exchange rates, cropland returns, and the real interest rate as determinants of foreign investment in U.S. cropland.

**The Contribution of Speculative Bubbles to Farmland Prices**, by Abebayehu Tegene and Fred Kuchler. 25 pp. July 1990. Order # TB-1782. \$8.00. Details tests for the presence of speculative bubbles in farmland prices.

## Conservation and the Conservation Reserve

**The Conservation Reserve Program: An Economic Assessment**, by C. Edwin Young and C. Tim Osborn. 40 pp. February 1990. Order # AER-626. \$8.00. Estimates the net economic benefits of the CRP.

**Natural Resources and Users Benefit from the Conservation Reserve Program**, by Marc O. Ribaudo and others. 51 pp. January 1990. Order # AER-627. \$8.00. Estimates how retiring cropland benefits natural resources under three scenarios of CRP enrollment.

**The Conservation Reserve Program: Enrollment Statistics for Signup Periods 1-9 and Fiscal Year 1989**, by C. Tim Osborn and others. 152 pp. July 1990. Order # SB-811. \$14.00. Presents CRP enrollment and accomplishments.

**Implementing the Conservation Reserve Program: Analysis of Environmental Options**, by Clayton W. Ogg and others. 26 pp. October 1989. Order # AER-618. \$5.50. Addresses which types of land to target to gain maximum environmental benefits from the CRP.

**Soil Depletion Estimates: Version 2: A User's Guide to a Personal Computer Model for Estimating Long-Term Onsite Physical and Economic Impacts of Soil Depletion**, by Leonard L. Bull and Daniel E. Kugler. 21 pp. January 1990. Order # AGES 9005. \$8.00. Compares shortrun and longrun effects on erosion and economic returns from alternative resource management systems.

**Investments in Soil Conservation and Land Improvements: Factors Explaining Farmers' Decisions**, by Elizabeth G. Nielsen and others. 36 pp. January 1989. Order # AER-601. \$5.50. Sheds new light on factors that determine farmers' investments in land improvements, including soil conservation, drainage, and land clearing.

**A Permanent Wetland Reserve: Analysis of a New Approach to Wetland Protection**, by Marc Carey and others. 20 pp. August 1990. Order # AIB-610. \$4.00. Discusses the likely geographic distribution of a permanent wetland reserve, crop rotations likely to be affected, and potential easement and restoration costs.

**Productivity and Erodibility of U.S. Cropland**, by Ralph E. Heimlich. 21 pp. January 1989. Order # AER-604. \$5.50. Finds that highly erodible farmland may also be highly productive and valuable.

**Water Quality Benefits from the Conservation Reserve Program**, by Marc O. Ribaudo. 30 pp. February 1989. Order # AER-606. \$5.50. Looks at the estimated \$3.5 to \$4 billion in water quality benefits that may be generated as a side effect of the Conservation Reserve Program.

**Irrigated Acreage in the Conservation Reserve Program**, by Glenn D. Schaible. 19 pp. July 1989. Order # AER-610. \$5.50. Identifies the extent of marginal irrigated acreage enrolled in the CRP through 1987 and the likely amount of such land to be enrolled in the CRP.

**The Conservation Reserve Program and Its Effect on Land Values**, by Robbin Shoemaker. 5 pp. January 1989. Order # AIB-554. \$3.00. Uses differences in average bids between signups (enrollment periods) to estimate an upper limit on the CRP's effects on the value of enrolled land.

**Estimating the Offsite Household Damages from Wind Erosion In the Western United States**, by Stephen Piper and Linda K. Lee. 21 pp. June 1989. Order # AGES 89-26. \$5.50. Finds that wind-caused soil erosion in some Western regions increases the need for interior and exterior cleaning, reduces recreational opportunities, and impairs health.

**Soil Erosion: What Effect on Agricultural Productivity?** by Klaus Alt and others. 6 pp. January 1989. Order # AIB-556. \$3.00. Estimates the potential losses in agricultural productivity from wind, sheet, and rill erosion.

**Monetary Policy: The Potential Role for Agricultural Commodity Prices**, by John Kitchen and others. 22 pp.

## Farm Policy

June 1990. Order # TB-1779. \$8.00. Presents empirical evidence on the relationships among agricultural and nonagricultural commodity prices, general price level, monetary aggregates, interest rates, industrial production, and the exchange rate.

**Agricultural-Food Policy Review: U.S. Agricultural Policies in a Changing World**. 404 pp. November 1989. Order # AER-620. \$12.00. Brings together background information for assessing today's agricultural sector and programs of the Food Security Act of 1985, and for looking at new agricultural, environmental, and rural development strategies.

## Basic Mechanisms of U.S. Farm Policy

**The Basic Mechanisms of U.S. Farm Policy: How They Work, with Examples and Illustrations**. 88 pp. January 1990. Order # MP-1479. \$6.50. Describes in plain English the key concepts of how U.S. farm policy works. Takes you step by step through the major programs. Separated into three, easy-to-follow sections. Also available in separate volumes, as shown below.

**The Basic Mechanisms of U.S. Farm Policy, Part One: Target, Loan & Deficiency**. 28 pp. May 1989. Order # MP-1470. \$5.50.

**The Basic Mechanisms of U.S. Farm Policy: Part Two: Deficiency Payments, Certificates, and PIK & Roll**. 32 pp. December 1989. Order # MP-1476. \$5.50.

**The Basic Mechanisms of U.S. Farm Policy: Part Three: Export Enhancement, FOR, Marketing Loans, Disaster Payments, and CRP**. 28 pp. December 1989. Order # MP-1477. \$5.50.

**Changes In U.S. Agriculture and Emerging Issues for Legislation In the 1990's**, by Kathryn L. Lipton. 12 pp. December 1989. Order # AIB-584. \$3.00. Outlines recent changes in the structure and financial picture of U.S. agriculture and previews some topics that may be considered in upcoming farm legislation.

**A Glossary of Food and Agricultural Policy Terms, 1989**, by Kathryn L. Lipton and Susan L. Pollack. 46 pp. November 1989. Order # AIB-573. \$5.50. A guide to many terms associated with food and agricultural policies and programs.

**World Food Security: The Effect of U.S. Farm Policy**, by Mark E. Smith. 8 pp. April 1990. Order # AIB-600. \$4.00. Defines U.S. world food security and looks at how U.S. domestic farm policies affect it.

**The Basic Mechanisms of Japanese Farm Policy**. 40 pp. February 1990. Order # MP-1478. \$5.50. Illustrates the workings of Japanese farm policy, looking at rice price support and beef import restrictions.

**The Basic Mechanisms of European Community (EC) Farm Policy**. 28 pp. August 1990. Order # MP-1485. \$5.50. Illustrates the effects of target, intervention, and threshold prices, plus levies and refunds.

## Food

**Food Consumption, Prices, and Expenditures, 1967-88**, by Judith Jones Putnam. 144 pp. May 1990. Order # SB-804. \$11.00. Presents historical data on food consumption, prices, and expenditures, and U.S. income and population.

**The Food Marketing System in 1989**, by Anthony E. Gallo. 16 pp. May 1990. Order # AIB-603. \$4.00. Analyzes and assesses yearly developments in the industry growth, performance, and structure of the institutions—food processors, wholesalers, retailers, and foodservice firms—which make up the Nation's food marketing system.

**Food Marketing Review, 1988**. 109 pp. August 1989. Order # AER-614. \$8.00. Examines food manufacturing, wholesaling, retailing, and serving the U.S. food supply.

**Food Spending In American Households, 1980-86**, by David M. Smallwood. 108 pp. March 1990. Order # SB-791. \$11.00. Shows trends in household food expenditures for major food groups by selected demographic factors for 1980-86, and tabulations for 133 food categories by 10 household socioeconomic characteristics for 1985 and 1986.

**Food Cost Review, 1989**, by Denis Dunham. 56 pp. July 1990. Order # AER-636. \$11.00. Looks at how much food prices rose in 1989 and why, how much of the retail food price the farm value represents, how farm-to-retail price spreads changed, and how much Americans spent for farm-produced food.

**Food Costs...From Farm to Retail In 1989**, by Denis Dunham. 12 pp. March 1990. Order # AIB-593. \$4.00. Reports how much food costs are changing and why, and how much of the consumer food dollar goes to the farm and how much to food processors and marketers.

**Data for Food Demand Analysis: Availability, Characteristics, Options**, by Alden C. Manchester. 48 pp. April 1990. Order # AER-613. \$8.00. Discusses the availability, characteristics, and derivation of time series for food consumption, food prices, food expenditures, and income for use in food demand analysis.

**Supermarket Prices and Price Differences: City, Firm, and Store-Level Determinants**, by Philip R. Kaufman and Charles R. Handy. 68 pp. December 1989. Order # TB-1776. \$8.00. Investigates how much supermarket prices vary, both among firms within cities and among firms in different cities, and the reasons for these differences.

**Generic Promotion of Agricultural Products: Balancing Producers' and Consumers' Needs**, by William N. Blisard and James R. Blaylock. 6 pp. July 1989. Order # AIB-565. \$3.00. Examines policy issues involved in Government-authorized generic advertising programs.

**Effects of Advertising on the Demand for Cheese, January 1982-June 1989**, by James R. Blaylock and William N. Blisard. 32 pp. August 1990. Order # AGES 9055. \$8.00. Reports on research to determine what effect advertising has had on the demand for natural and processed cheese.

**The Economics of Safeguarding the U.S. Food Supply**, by Tanya Roberts and Eileen van Ravenswaay. 8 pp. July 1989. Order # AIB-566. \$3.00. A look at the economic issues involved in detecting and eliminating contaminants in the food supply and the challenges of incorporating new technology into workable food safety policies.

**Economic Analysis of Electron Accelerators and Cobalt-60 for Irradiating Food**, by Rosanna M. Morrison. 38 pp. June 1989. Order # TB-1762. \$5.50. Average costs per pound of irradiating food are similar for the electron accelerator and cobalt-60 irradiators, but initial investment costs can vary by \$1 million.

**Retail to Farm Linkage for a Complete Demand System of Food Commodities**, by Michael K. Wohlgemant and Richard C. Haidacher. 47 pp. December 1989. Order # TB-1775. \$8.00. Describes a new conceptual model to estimate the effects of demand, supply, and marketing margins on retail food prices and farm prices.

**U.S. Domestic Food Assistance Program: Lessons from the Past**, by J. William Levedahl and Masao Matsumoto. 16 pp. January 1990. Order # AIB-570. \$4.00. Describes current domestic food assistance programs, their relationships to each other, their effects on the food production and marketing sectors, and cost.

## Futures and Options

**Subsidized Put Options as Alternatives to Price Supports**, by Joseph W. Glauber and Mario J. Miranda. 24 pp. December 1989. Order # TB-1773. \$5.50. Compares effectiveness of a subsidized put option program to support and stabilize producer income with the current program.

**Effects of a Subsidized Put Option Program and Forward Selling on Farmers' Revenue Risks**, by Gerald Plato. 26 pp. December 1989. Order # TB-1777. \$5.50. Compares the effectiveness of the current commodity program for cotton, corn, soybeans, and wheat with the effectiveness of a subsidized put option program for these four commodities.

**Potentials for Substituting Farmers' Use of Futures and Options for Farm Programs**, by Richard G. Heifner and Bruce Wright. 75 pp. December 1989. Order # AER-628. \$8.00. Identifies possibilities and quantifies the effects of policy alternatives that involve greater use of forward markets.

**Futures, Options, and Farm Programs: Report to Congress on a Study Mandated by the Food Security Act of 1985**, by Richard G. Heifner and others. 28 pp. January 1990. Order # AGES-9003. \$8.00. Looks at how farmers might use futures and options markets, the price stability and income protection attainable through such use, and the effects on the Federal budget.

## Inputs

**Global Trade in Agricultural Inputs**, by Stan Daberkow and John Parks. 88 pp. September 1990. Order # SB-812. \$11.00. Gives historical perspective and statistics on the extent and direction of international trade in manufactured agricultural inputs and agricultural genetic materials.

**Estimating Forage Values for Grazing National Forest Lands**, by William F. Hahn and others. 68 pp. October 1989. Order # AGES 89-51. \$8.00. Provides estimates of the ability of ranchers to pay for Forest Service grazing.

**Ethanol and U.S. Agriculture**, by Sally Kane and Michael LeBlanc. 8 pp. January 1989. Order # AIB-559. \$3.00. Assesses contribution of ethanol production to national objectives on energy, environment, and trade policy.

**Economics of Ethanol Production in the United States**, by Sally M. Kane and John M. Reilly. 20 pp. March 1989. Order # AER-607. \$5.50. Evaluates structural characteristics of the ethanol industry, including economies of scale and the relative economics of wet- and dry-mill plants.

**The Economic Cost of Unemployment and Underemployment**, by Mervin J. Yetley. 28 pp. May 1989. Order # AGES 89-17. \$5.50. Describes the procedure used to estimate the magnitude of lost earnings due to both underemployment and unemployment.

**Economic Returns to Boll Weevil Eradication**, by Gerald A. Carlson and others. 31 pp. September 1989. Order # AER-621. \$5.50. Evaluates returns of a pest control program in a large geographical area and the joint efforts of farmers and public agencies, in contrast to pest control efforts by individuals, which can be less successful.

**Agricultural Pesticide Use Trends and Policy Issues**, by Craig D. Osteen and Philip I. Szmedra. 87 pp. September 1989. Order # AER-622. \$8.00. Discusses pesticide use trends and factors affecting those trends.

**Fertilizer Use and Price Statistics, 1960-88**, by Harry Vroomen. 56 pp. July 1989. Order # SB-780. \$8.00. Includes quarterly or semiannual time series for farm fertilizer price indexes, consumption by plant nutrient and major selected products, and statistics on fertilizer use per acre by nutrient in major producing States for corn, cotton, soybeans, and wheat.

**Fertilizer Trade Statistics, 1970-88**, by Harry Vroomen. 28 pp. June 1989. Order # SB-782. \$5.50. Includes data on U.S. imports and exports of selected fertilizer materials; world and U.S. imports and exports of nitrogen, phosphate, and potash; and U.S. import origins and export destinations for selected fertilizer materials.

**Seven Farm Input Industries**, edited by Joseph R. Barse. 125 pp. September 1990. Order # AER-635. \$11.00. Describes seven industries that provide resources for farming (fertilizer, pesticides, energy, feed, credit, farm machinery, and hired labor) and explains the situation of the industries during 1966-86.

**Tractor Depreciation and Technical Change: A Case Study of 60-Horsepower Tractors**, by LeRoy Hansen and Hyunok Lee. 20 pp. February 1990. Order # TB-1772. \$4.00. Examines physical depreciation and technical change in farm tractors to quantify changes in this type of capital.

**Major World Crop Areas and Climatic Profiles**. 163 pp. Order # AH-664. \$8.00. Identifies key U.S. and foreign regions, concentrated production zones, and the normal timing of critical crop stages from planting for 13 major crops.

**Weather In U.S. Agriculture: Monthly Temperature and Precipitation by State and Farm Production Region, 1950-88**, by Lloyd D. Teigen and Florence Singer. 131 pp. November 1989. Order # SB-789. \$3.00. Shows monthly temperature and precipitation data by climatic division, in the 48 contiguous States using two alternative sets of weights: geographic areas and harvested cropland areas.

**Effects of the 1988 Drought on Farm Finances**, by Gerald Whittaker. 16 pp. August 1990. Order # AIB-611. \$4.00. This evaluation of the effects of the 1988 drought on farm finances finds that nine States in the Upper Midwest received 70 percent of Federal crop damage payments and 40 percent of the livestock feed disaster payments which were made through August 1989.

## Irrigation and Water Use

**Agricultural Use of Federally Supplied Irrigation Water, 1979-86**, by Tom McGuckin and others. 70 pp. December 1989. Order # SB-788. \$8.00. Describes trends in cropping patterns and Bureau of Reclamation water use for 1979-86.

**Economics of Controlling Sediment from Irrigation: An Idaho Example**, by Richard Magleby and others. 32 pp. September 1989. Order # AGES 89-33. \$5.50. Summarizes the results of the evaluation of Idaho's Rock Creek Rural Clean Water Program project, an experimental program aimed at providing experience and insights for future nonpoint pollution control programs.

**Irrigated Agriculture In the United States: State-Level Data**, by John J. Hanchar. 72 pp. January 1989. Order # SB-767. \$8.00. Presents previously unreported State-level data on the structure and characteristics of irrigated farms in Arkansas, Louisiana, Florida, and the 17 Western States.

**Public Policies In Water-Resource Use: Their Effect on Groundwater Mining and Surface-Water Imports**, by C.S. Kim and Michael R. Moore. 35 pp. July 1989. Order # TB-1764. \$5.50. Analyzes the effect of public policies on the rate of groundwater use and on the timing of surface water transported into an area to satisfy regional water demand.

**Factor Demand in Irrigated Agriculture Under Conditions of Restricted Water Supplies**, by Daniel J. Bernardo and Norman K. Whittlesey. 13 pp. July 1989. Order # TB-1765. \$5.50. Uses a whole-farm irrigation management model to look at several scenarios of limited water supply.

**A User's Manual for the Irrigation Production Data System (IPDS)**, by Glenn D. Schaible and others. 68 pp. April 1989. Order # AGES 89-10. \$8.00. Documents IPDS, a Lotus 1-2-3 microcomputer database, its structure, data, and computer requirements, and describes other characteristics of the system.

**Economic Benefit Considerations in Selecting Water Quality Projects: Insights from the Rural Clean Water Program**, by Stephen Piper and others. 36 pp. May 1989. Order # AGES 89-18. \$5.50. Finds that projects under the Rural Clean Water Program that preserve or improve water quality in a heavily used lake or estuary appear to have the greatest potential for generating net benefits.

**Economic and Technical Adjustments In Irrigation Due to Declining Ground Water**, by William Crosswhite and others. 35 pp. February 1990. Order # AGES 9018. \$8.00. Examines changes that irrigators are likely to make as the cost of water rises because of increasing pumping lift and declining well yields in ground-water areas.

**Water Allocation Tradeoffs: Irrigation and Recreation**, by Leroy T. Hansen and Arne Hallam. 21 pp. June 1990. Order # AER-634. \$8.00. Develops a procedure for estimating the marginal value of water used for fishing that includes the effects of upstream diversions on all points downstream.

**Water Conservation Through Irrigation Technology**, by Donald H. Negri and John J. Hanchar. 12 pp. November 1989. Order # AIB-576. \$3.00. Finds that new equipment and advanced water management practices conserve water without sacrificing crop yields.

## New Technology

**International Technology Transfer In U.S. Agriculture**, by Margot Anderson. 12 pp. August 1989. Order # AIB-571. \$3.00. Discusses implications of and reasons for private sector expansion into agricultural research and technology transfers.

**Issues Raised by New Agricultural Technologies: Livestock Growth Hormones**, by Fred Kuchler and John McClelland. 40 pp. April 1989. Order # AER-608. \$5.50. Looks at the changes to be expected if all livestock were treated with growth hormones.

**Chemigation: A Technology for the Future?** by Noel Gollehon. 16 pp. July 1990. Order # AIB-608. \$4.00. Defines and describes chemigation, the use of an irrigation system to apply chemicals to soils and plants. Also discusses benefits as well as management and resource considerations.

**How Technological Progress and Government Programs Influence Agricultural Land Values**, by Robbin Shoemaker. 12 pp. January 1990. Order # AIB-582. \$4.00. Examines the mix of forces leading to the longrun increase in land values.

**Consumer Effects of Biotechnology**, by John M. Reilly. 12 pp. December 1989. Order # AIB-581. \$3.00. Identifies some of the issues and tradeoffs between concerns raised by biotechnology and the problems people hope biotechnology will solve.

**Biotechnology and Agriculture: Emergence of Bovine Somatotropin (bST)**, by Don Blayner and Richard Fallert. 28 pp. June 1990. Order # AGES 9037. \$8.00. Updates and extends a 1987 study of BST and the dairy industry.

## Rural Issues

**An Update: The Diverse Social and Economic Structure of Nonmetropolitan America**, by Thomas F. Hady and Peggy J. Ross. 38 pp. May 1990. Order # AGES 9036. \$8.00. Updates a 1979 classification system of nonmetro counties developed by ERS that identified rural counties according to their economic and social structure.

**Effects of Population Growth and County Type on Farm Structure, 1970-80**, by Nora Brooks and others. 20 pp. August 1989. Order # AGES 89-37. \$5.50. Examines whether farm structure is affected by change in community characteristics, and if these structural effects differ by the community's metro-nonmetro status.

**Explanatory Guide to the ERS Metro and Nonmetro Labor Force and Income Data Diskette**, by Martha Frederick. 24 pp. August 1989. Order # AGES 89-39. \$5.50. Explains the labor force, employment, and income data included on the ERS "Metro and Nonmetro Labor Force and Income Data Diskette."

**Jobs and Earnings In Nonmetro Industry**, by Linda M. Ghelfi and T. Alexander Majchrowicz. 12 pp. February 1990. Order # AIB-589. \$4.00. Finds that nonmetro job growth accelerated, and real earnings grew, but more slowly in 1987 than in 1982-86.

**Rural America: Economic Performance, 1989**, by J. Norman Reid and Martha Frederick. 24 pp. August 1990. Order # AIB-609. \$8.00. Finds that rural America's economy in 1980-89 was more sluggish than the urban economy and continued to undergo industrial restructuring.

**State-Level Comparisons of Metro and Nonmetro Economic Performance, 1979-86**, by John M. Redman and Thomas D. Rowley. 25 pp. November 1989. Order # AGES 89-60. \$5.50. Presents State-level data for 1979-86 on metro and nonmetro population, employment, and income, and describes individual States based on the relative economic performance of their metro and nonmetro areas.

**Patterns of Change in the Rural Economy, 1969-86**, by T. Alexander Majchrowicz. 36 pp. December 1989. Order # RDRR-73. \$5.50. Analyzes changes in county data on labor force, employment, and income.

**Status of the Nonmetro Labor Force, 1987**, by Alan R. Bird. 26 pp. September 1990. Order # RDRR-79. \$8.00. Develops indicators of labor market conditions and uses them to show that nonmetro workers faced generally more unfavorable employment conditions than metro workers in 1987.

**Political Leaders as Entrepreneurs? Economic Development In Small Communities**, by Alvin D. Sokolow and Julie Spezia. 33 pp. October 1990. Order

# RDRR-77. \$8.00. Reviews 17 successful cases of smalltown development, which compare project initiators and their actions, and suggest several critical differences between local political leadership and entrepreneurship.

**The Importance of Transfer Payments In Nonmetro America**, by Linda Ghelfi and Robert Hoppe. 8 pp. March 1989. Order # AIB-562. \$3.00. Finds that transfer payments are a growing source of income in nonmetro areas, accounting for 18.7 percent of annual personal income in 1986.

**Entrepreneurship Theories and Their Use in Rural Development: An Annotated Bibliography**, by Martha Frederick and Celeste A. Long. 88 pp. April 1989. Order # BLA-74. \$8.00. A guide to theoretical material and to more recent empirical work on entrepreneurs in different economic climates.

**Public Water Supply in Rural Communities: Results from the National Rural Community Facilities Assessment Study**, by Thomas F. Stinson and others. 50 pp. January 1989. Order # AGES 89-4. \$5.50. Presents estimates on public water facilities serving rural communities.

**Geographic Distribution of Federal Funds In 1985**, by Elliott J. Dubin. 109 pp. March 1989. Order # AGES 89-7. \$8.00. Examines the metro/nonmetro distribution of Federal funds in fiscal year 1985.

**The Drought of 1988: Effects on the U.S. Food and Fiber Sector and on Rural Communities**. 53 pp. January 1989. Order # AGES 89-8. \$5.50. Presents data and information from surveys of farmers conducted during 1988.

**Local Response to Federal Budget Policies: A Study of Nonmetropolitan Communities in Ohio**, by Philip A. Russo, Jr., and others. 41 pp. June 1989. Order # AGES 89-24. \$5.50. Investigates how declining Federal funding, 1981-86, affected six nonmetro counties and six small cities in Ohio.

**Helping Those Who Venture: Iowa's Rural Economic Development Measures**, by Don F. Hadwiger. 38 pp. September 1990. Order # AGES 9047. \$8.00. Finds that a quarter of Iowa's State budget encompasses measures aimed at rural development.

**Employment Stability Among Workers: A Case Study from Nine Nonmetro Kentucky Counties, 1979**, by Donald K. Larson. 26 pp. July 1989. Order # AGES 89-31. \$5.50. Shows that even during a period of rapid growth (1974-79) in south central Kentucky, employment was disrupted for some workers.

**Rural-Urban Continuum Codes for Metro and Nonmetro Counties**, by Margaret A. Butler. 38 pp. April 1990. Order # AGES 9028. \$8.00. Provides a one-digit code for each of 10 classifications for all U.S. counties.

**Patterns of Change In the Rural Economy, 1969-86**, by T. Alexander Majchrowicz. 36 pp. December 1989. Order # RDRR-73. \$5.50. Analyzes changes in county data on labor force, employment, and income for metro and nonmetro counties.

**Survival and Growth of Independent Firms and Corporate Affiliates in Metro and Nonmetro America**, by James P. Miller. 24 pp. February 1990. Order # RDRR-74. \$8.00. Reveals that local, independent firms survived better and grew faster than corporate affiliates in nonmetro areas.

## Trade and Foreign Issues

**A Survey of Theoretical and Empirical Literature Related to Export Assistance**, by Ann Hillberg Seitzinger and Philip L. Paarlberg. 32 pp. August 1989. Order # AGES 89-34. \$5.50. Examines the literature regarding global and targeted export assistance, including cash and payment-in-kind.

**Food Aid: Motivation and Allocation Criteria**, by Shahla Shapouri and Margaret Missiaen. 44 pp. February 1990. Order # FAER-240. \$8.00. Evaluates the motives that affect food aid policies and distribution, including a review of food aid from the United States, the European Community, and Canada.

**Foreign Aid's Effect on U.S. Farm Exports: Benefits or Penalties?** by Alain de Janvry and others. 52 pp. November 1989. Order # FAER-238. \$5.50. Identifies conditions that increase aid-trade complementarity and implications for formulating and implementing development policy.

**Competitiveness and Protection in World Agriculture**, by Thomas L. Vollrath. 12 pp. July 1989. Order # AIB-567. \$3.00. Explores what agricultural competitiveness means by using three different measures: market share, relative export advantage, and revealed competitiveness.

**World Agriculture: Trends and Indicators, 1970-89**. 552 pp. September 1990. Order # SB-815. \$14.00. Statistics on aggregate economic and agricultural growth, performance, and trade indicators for the world, for 14 geographic regions, the European Community, and for 142 individual countries. Covers such topics as population, gross domestic product, consumption, factors of production, commodity production, trade, and resource use.

**Agricultural Policy, Trade, Economic Growth, and Development**. 191 pp. May 1989. Order # AGES 89-19. \$8.00. Provides an overview of the salient domestic agricultural policies that have affected trade, development, and growth in Malawi, Kenya, Thailand, Malaysia, Ecuador, and Guatemala.

**Exporting Processed Instead of Raw Agricultural Products**, by Gerald Schluter and William Edmondson. 20 pp. November 1989. Order # AGES 89-58. \$5.50. Examines the national output, income, and employment effects for selected raw commodity/processed commodity combinations.

**The Export Enhancement Program: How Has it Affected Wheat Exports?** by Ann Seitzinger and Philip Paarlberg. 12 pp. December 1989. Order # AIB-575. \$3.00. Finds that the Export Enhancement Program raised U.S. wheat export volume, prices, and gross export revenues.

**Structural Econometric Model of the World Wheat Market**, by Kenneth W. Bailey. 63 pp. June 1989. Order # TB-1763. \$8.00. Presents an econometric model to assess the effect of changing global policies and other conditions on world wheat trade and changes in U.S. farm programs on the rest of the world and on U.S. export levels.

**Evaluation of Export Enhancement, Dollar Depreciation, and Loan Rate Reduction for Wheat**, by Stephen L. Haley. 32 pp. April 1989. Order # AGES 89-6. \$5.50. Finds that U.S. export enhancement bonuses may have increased the U.S. price of wheat between 7 and 22 percent, U.S. wheat export volume between 10 and 31 percent, and U.S. wheat export revenue between 18 and 61 percent for the 1986/87 crop year.

**Why Did U.S. Wheat Exports Expand?** by Kenneth W. Bailey. 8 pp. May 1989. Order # AIB-564. \$3.00. Identifies factors that expanded recent wheat exports, finding that policy effectiveness changes as market conditions change.

**Dockage and Foreign Material In the Grading Standards for Wheat Exports**, by Stephanie A. Mercier. 23 pp. December 1989. Order # AGES 89-68. \$8.00. Focuses on economic effects that a new grading standard would have on wheat producers, handlers, and exporters.

**U.S. Imports of Fruits and Vegetables Under Plant Quarantine Regulations, Fiscal Year 1987**, by Joan Pearrow. 49 pp. January 1990. Order # AGES 9009. \$8.00. Summarizes imports of over 200 commodities by country of origin and port of entry during FY 1987.

**The Specification, Estimation, and Simulation of a Small Global Macroeconomic Model**, by James R. Malley. 24 pp. March 1990. Order # AGES 9011. \$8.00. Describes the structure and simulation properties of a small global macroeconomic model (SGM).

**Measuring the Effectiveness of the Export Enhancement Program for Poultry**, by Stephen L. Haley. 23 pp. March 1990. Order # AGES 9016. \$8.00. Examines the economic effects of the EEP for poultry meat for 1987.

**U.S. Adjustment in the 1990's: A CGE Analysis of Alternative Trade Strategies**, by Robert Hanson and others. 32 pp. May 1990. Order # AGES 9031. \$8.00. Investigates the implications for the structure of the U.S. economy of a reduction in the U.S. trade deficit.

**Agricultural Export Programs: Background for 1990 Farm Legislation**, by Karen Z. Ackerman and Mark E. Smith. 66 pp. May 1990. Order # AGES 9033. \$11.00. Summarizes the major export programs since World War II.

**Agricultural Trade, Agreements, and Disputes in the Western Hemisphere**, by Nicole Ballenger and others. 43 pp. June 1989. Order # AGES 89-28. \$5.50. Assesses major bilateral and multilateral arrangements guiding agricultural trade relations among Western Hemisphere countries.

**How Level is the Playing Field? An Economic Analysis of Agricultural Policy Reforms in Industrial Market Economies**, by Vernon Roningen. 39 pp. December 1989. Order # AER-239. \$5.50. Focuses on how levels of assistance to agriculture compare across countries and commodity markets; how assistance to agriculture in industrial market economies distorted world production and trade; and who would benefit from eliminating assistance to agriculture in industrial market economies.

**Foreign Debt, Capital Formation, and Debtor Behavior**, by Carlos Arnade and others. 32 pp. July 1989. Order # TB-1767. \$5.50. Finds that problem debtor countries, with over \$10 billion in external debt, used their borrowed funds to invest less and consume more than a comparable group of debtors without repayment problems.

**Developing Countries' High-Value Agricultural Trade: Implications for U.S. Exports**, by Mary Burfisher and Margaret Missiaen. 14 pp. September 1990. Order # AIB-615. \$4.00. Finds that developing countries expanded their high-value product (HVP) exports to the United States during the 1980's, while remaining as only minor markets for U.S. HVP exports.

**Agricultural Trade Liberalization and Developing Countries**, by Barry Krissoff and others. 46 pp. May 1990. Order # AGES 9042. \$8.00. Discusses some of the potential effects of agricultural trade liberalization on the economies of developing nations, featuring a static global agricultural net trade model that contains 36 countries or regions and 22 commodities.

**Trade and Development: Impact of Foreign Aid on U.S. Agriculture**, edited by Gary Vocke. 69 pp. June 1990. Order # AGES 9044. \$11.00. This report reviews the role of the various types of foreign assistance and the international factors influencing their effectiveness in promoting economic development.

**Incorporating Inputs In the Static World Policy Simulation Model (SWOPSIM)**, by Peter S. Liapis. 34 pp. June 1990. Order # TB-1780. \$8.00. Documents the methodology used to incorporate inputs in the trade liberalization models built with the Static World Policy Simulation Model.

**Using Producer and Consumer Subsidy Equivalents in the SWOPSIM Modelling Framework**, by Stephen L. Haley. 36 pp. March 1989. Order # AGES 89-11. \$5.50. A technical review of the use of PSE's and CSE's in statistical modeling of agricultural trade.

**Factor Intensity of U.S. Agricultural Trade**, by Darryl S. Wills and Chinkook Lee. 36 pp. August 1990. Order # AER-637. \$8.00. Reviews the commodity composition of U.S. agricultural exports.

**Exchange Rates and U.S. Agricultural Trade**, by Mathew D. Shane. 12 pp. January 1990. Order # AIB-585. \$4.00. Finds that exchange rates are now the single most important variable in determining the economic environment for agricultural trade.

**World Grain Stocks: Where They Are and How They Are Used**, by Jerry A. Sharples and Jeanette Krutzfeldt. 16 pp. May 1990. Order # AIB-594. \$4.00. Examines policies and practices of main grain stockholding countries.

**The Links Between Development and World Trade**, by Thomas Vollrath. 12 pp. February 1990. Order # TB-1774. \$4.00. Determines which countries will be strong competitors or trade partners of the United States.

**Estimates of Producer and Consumer Subsidy Equivalents: Government Intervention in Agriculture, 1982-87**, by Alan J. Webb and others. 368 pp. April 1990. Order # SB-803. \$14.00. Reports estimates of producer and consumer subsidy equivalents for more than 40 commodities and products in 27 countries and the EC.

**World Population by Country and Region, 1950-2050**, by Francis Urban and Michael Trueblood. 76 pp. April 1990. Order # AGES 9024. \$11.00. Contains estimates of world population from 1950 to the late 1980's and projections to 2050.

**Efficiency and Growth in Agriculture: A Comparative Study of the Soviet Union, United States, Canada, and Finland**, by Robert B. Koopman. 48 pp. October 1989. Order # AGES 89-54. \$5.50. Shows that the slow pace of technological innovation is main reason for slow Soviet growth.

**Economic Implications of Agricultural Policy Reforms In Industrial Market Economies**, by Vernon O. Roningen and Praveen M. Dixit. 73 pp. August 1989. Order # AGES 89-36. \$8.00. Uses an 11-region, 22-commodity world net trade model to study the economic implications of farm policy reform in industrial market economies.

**EC 1992: Perspectives on Agriculture**, edited by Walt Gardiner and David R. Kelch. 46 pp. May 1990. Order # AGES 9043. \$8.00. Contains five papers presented at a symposium during the 1989 annual meeting of the American Agricultural Economics Association in Baton Rouge, LA.

**Agricultural Statistics of the European Community, 1960-85**, by Michael Herlihy and others. 123 pp. January 1989. Order # SB-770. \$8.00. Presents a comprehensive database on the agricultural sector of the European Community.

**High-Value Products: Growing U.S. and EC Competition In World Markets**, by Ruth Elleson. 34 pp. April 1990. Order # AGES 9022. \$8.00. Compares U.S. and EC export shares during 1970-87, showing that the EC, the world's leading exporter of high-value products, has successfully competed against the United States.

**The Effects of the Common Agricultural Policy on the European Community Wheat-Washing Industry and Grain Trade**, by Dale J. Leuck. 26 pp. April 1990. Order # AGES 9023. \$8.00. Looks at the EC wheat-washing industry, which separates wheat flour into wheat gluten and wheat starch.

**Estimation and Evaluation of Economic Community Wheat Export Subsidies**, by Peter S. Liapis. 33 pp. November 1989. Order # AGES 89-55. \$5.50. Examines the relationship between the EC export subsidies and U.S. wheat export prices.

**Trade Liberalization In Yugoslavia and Poland**, by Nancy J. Cochrane. 48 pp. August 1990. Order # AGES 9058. \$8.00. Presents estimates of producer and consumer subsidy equivalents for Yugoslavia and Poland, using the Static World Policy Simulation framework developed by ERS.

**Agricultural Statistics of Eastern Europe and the Soviet Union, 1965-85**, by Nancy J. Cochrane. 129 pp. July 1989. Order # SB-778. \$8.00. Contains 110 tables with data on land use, farm structure, population, farm machinery, crop and livestock production, and more.

**Agricultural Performance in Eastern Europe, 1988**, by Nancy J. Cochrane and Miles J. Lambert. 27 pp. August 1989. Order # AGES 89-38. \$5.50. Finds that farm output in Eastern Europe stagnated in 1988, but agricultural trade balances improved in most countries.

**U.S. Agricultural Trade with the Developed Pacific Rim, 1968-88**, by Wilma Davis and others. 80 pp. May 1990. Order # AGES 9035. \$11.00. This statistical compendium presents data on U.S. agricultural exports and imports with the developed Pacific Rim countries.

**Effects of Imports on the Puerto Rican Livestock-Meat Industry**, by Lawrence A. Duewer and others. 60 pp. March 1989. Order # AER-605. \$5.50. Examines the Puerto Rican beef industry and discusses possible policy alternatives for addressing the industry's problems.

**The Mexican Wheat Market and Trade Prospects**, by Myles J. Mielke. 36 pp. September 1990. Order # AGES 9052. \$8.00. Analyzes and projects Mexican wheat supply and demand conditions in a liberalizing policy environment.

**Government Intervention In the Mexican Crop Sector**, by Myles J. Mielke. 20 pp. September 1989. Order # AGES 89-40. \$5.50. Models a 50-percent reduction in Mexico's producer price subsidies over 5 years to simulate a gradual lessening of government intervention.

**Peru: An Export Market Profile**, by H. Christine Bolling. 74 pp. December 1989. Order # AGES 89-53. \$8.00. Identifies Peru as a potentially limited commercial market for U.S. farm commodities in the current economic climate.

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**Reducing Support Using Aggregate Measures, Case Study: Thailand**, by Douglas H. Brooks. 24 pp. July 1989. Order # AGES 89-30. \$5.50. Finds that Thailand's government support can be reduced by charging for irrigation and reimposing export taxes.

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**Elasticities in the Trade Liberalization Database**, by Walter H. Gardiner and others. 72 pp. May 1989. Order # AGES 89-20. \$8.00. From various sources, compiles the elasticities of supply and demand available in the Trade Liberalization database.

**Price Transmission Elasticities in the Trade Liberalization (TLIB) Database**, by John Sullivan. 22 pp. April 1990. Order # AGES 9034. \$8.00. Documents price transmission elasticities available in ERS' TLIB database.

**A Database for Trade Liberalization Studies**, by John Sullivan and others. 160 pp. March 1989. Order # AGES 89-12. \$8.00. Presents a global database for 22 commodities and 36 regions of the world.

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**A Short History of U.S. Agricultural Trade Negotiations**, by Jane M. Porter and Douglas E. Bowers. 12 pp. August 1989. Order # AGES 89-23. \$5.50. Summarizes U.S. farm trade negotiations from the beginnings of the GATT in 1947.

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**Capital Accumulation and Asset Pricing in U.S. Agriculture**, by Utpal Vasavada and Agapi Somwaru. 20 pp. February 1990. Order # TB-1771. \$4.00. Investigates the relationship between asset prices and asset returns for U.S. agriculture over 1931-86.

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